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PASSWORD:

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NEWS 3 JAN 25 Annual Reload of MEDLINE database
NEWS 4 FEB 16 STN Express Maintenance Release, Version 8.4.2, Is
Now Available for Download
NEWS 5 FEB 16 Derwent World Patents Index (DWPI) Revises Indexing
of Author Abstracts
NEWS 6 FEB 16 New FASTA Display Formats Added to USGENE and PCTGEN
NEWS 7 FEB 16 INPADOCDB and INPAFAMDB Enriched with New Content
and Features
NEWS 8 FEB 16 INSPEC Adding Its Own IPC codes and Author's E-mail
Addresses
NEWS 9 APR 02 CAS Registry Number Crossover Limits Increased to
500,000 in Key STN Databases
NEWS 10 APR 02 PATDPAFULL: Application and priority number formats
enhanced
NEWS 11 APR 02 DWPI: New display format ALLSTR available
NEWS 12 APR 02 New Thesaurus Added to Derwent Databases for Smooth
Sailing through U.S. Patent Codes
NEWS 13 APR 02 EMBASE Adds Unique Records from MEDLINE, Expanding
Coverage back to 1948
NEWS 14 APR 07 CA/CAPLUS CLASS Display Streamlined with Removal of
Pre-IPC 8 Data Fields
NEWS 15 APR 07 50,000 World Traditional Medicine (WTM) Patents Now
Available in CAPLUS
NEWS 16 APR 07 MEDLINE Coverage Is Extended Back to 1947

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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specific topic.

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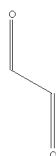
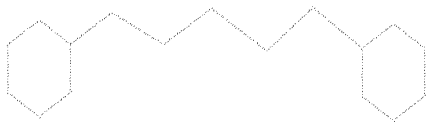
***** STN Columbus *****

chain bonds :
18-19 20-21
ring/chain bonds :
5-7 7-8 8-9 9-10 10-11 11-12 19-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 7-8 8-9 9-10 10-11 11-12 12-13 12-17
13-14 14-15 15-16 16-17 18-19 19-20 20-21

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS
20:CLASS 21:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sam
SAMPLE SEARCH INITIATED 12:52:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 493452 TO ITERATE

0.4% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FILE 'HOME' ENTERED AT 12:51:41 ON 04 JUN 2010

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL
FULL ESTIMATED COST 0.22 SESSION 0.22

FILE 'REGISTRY' ENTERED AT 12:51:56 ON 04 JUN 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2010 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JUN 2010 HIGHEST RN 1226851-61-1
DICTIONARY FILE UPDATES: 2 JUN 2010 HIGHEST RN 1226851-61-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

ISCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

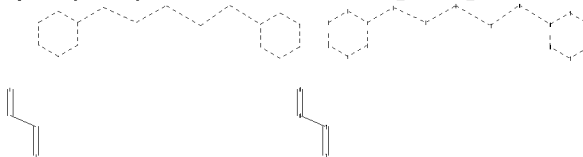
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10828558_06042010_1.str



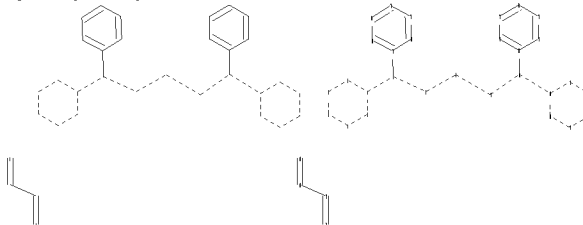
chain nodes :
18 21
ring nodes :
1 2 3 4 5 6 12 13 14 15 16 17
ring/chain nodes :
7 8 9 10 11 19 20

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 9828719 TO 9909361
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=>

Uploading C:\Program Files\STNEXP\Queries\10828558_06042010_2.str



chain nodes :
18 21
ring nodes :
1 2 3 4 5 6 12 13 14 15 16 17 22 23 24 25 26 27 28 29 30 31
32 33
ring/chain nodes :
7 8 9 10 11 19 20
chain bonds :
7-22 11-23 18-19 20-21
ring/chain bonds :
5-7 7-8 8-9 9-10 10-11 11-12 19-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17 22-24
22-28 23-29 23-33 24-25 25-26 26-27 27-28 29-30 30-31 31-32 32-33
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 7-8 8-9 9-10 10-11 11-12 12-13 12-17
13-14 14-15 15-16 16-17 18-19 19-20 20-21
exact bonds :
7-22 11-23
normalized bonds :
22-24 22-28 23-29 23-33 24-25 25-26 26-27 27-28 29-30 30-31 31-32 32-33

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom 30:Atom 31:Atom 32:Atom 33:Atom

L3 STRUCTURE UPLOADED

=> d
L3 HAS NO ANSWERS
L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l3 sam
SAMPLE SEARCH INITIATED 12:54:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 61071 TO ITERATE

3.3% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1206671 TO 1236169
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> s l3 full
FULL SEARCH INITIATED 12:55:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1227365 TO ITERATE

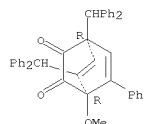
100.0% PROCESSED 1227365 ITERATIONS 18 ANSWERS
SEARCH TIME: 00.00.08

L5 18 SEA SSS FUL L3

=> d l5 1-18

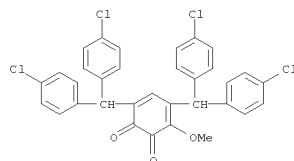
L5 ANSWER 1 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 1026261-93-7 REGISTRY
ED Entered STN: 08 Jun 2008
CN Bicyclo[2.2.2]octa-5,7-diene-2,3-dione,
1,5-bis(diphenylmethyl)-4-methoxy-8-phenyl-, (1R,4R)- (CA INDEX NAME)
FS STEREOSEARCH
MF C41 H32 O3
SR Other Sources
Database: ChemSpider (ChemZoo, Inc.)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

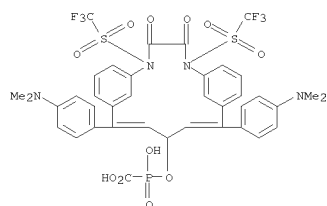
L5 ANSWER 2 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 870475-16-4 REGISTRY
ED Entered STN: 21 Dec 2005
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis(4-chlorophenyl)methyl]-3-methoxy-
(CA INDEX NAME)
MF C33 H22 Cl4 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

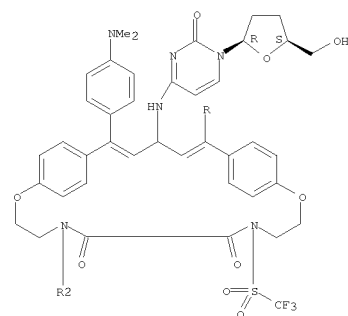
L5 ANSWER 3 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 849903-84-0 REGISTRY
ED Entered STN: 06 May 2005
CN Phosphinecarboxylic acid, 1-[[[11,15-bis[4-(dimethylamino)phenyl]-3,4-dioxo-2,5-bis[(trifluoromethyl)sulfonyl]-2,5-diazatricyclo[14.3.1.16,10]heneicosa-1(20),6,8,10(21),11,14,16,18-octaen-13-yl]oxy]-1-hydroxy-, 1-oxide (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phosphinecarboxylic acid, [[11,15-bis[4-(dimethylamino)phenyl]-3,4-dioxo-2,5-bis[(trifluoromethyl)sulfonyl]-2,5-diazatricyclo[14.3.1.16,10]heneicosa-1(20),6,8,10(21),11,14,16,18-octaen-13-yl]oxy]hydroxy-, oxide (9CI)
MF C38 H33 F6 N4 O11 P S2
CI COW
SR CA



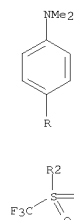
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 4 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 849736-77-2 REGISTRY
ED Entered STN: 04 May 2005
CN 11,20-Dioxo-14,17-diazatricyclo[19.2.2.27,10]heptacos-2,5,7,9,21,23,24,26-octaene-15,16-dione, 4-[[[1,2-dihydro-2-oxo-1-[(2R,5S)-tetrahydro-5-(hydroxymethyl)-2-furanyl]-4-pyrimidinyl]amino]-2,6-bis[4-(dimethylamino)phenyl]-14,17-bis[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C50 H51 F6 N7 O11 S2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USFATFULL

Absolute stereochemistry.
Double bond geometry unknown.



PAGE 1-A



PAGE 2-A

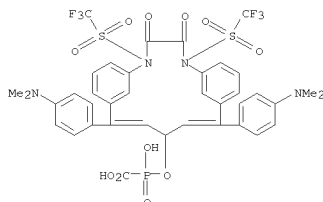
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 5 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 849736-74-9 REGISTRY
ED Entered STN: 04 May 2005
CN Phosphinecarboxylic acid, 1-[[[11,15-bis[4-(dimethylamino)phenyl]-3,4-dioxo-2,5-bis[(trifluoromethyl)sulfonyl]-2,5-diazatricyclo[14.3.1.16,10]heneicosa-1(20),6,8,10(21),11,14,16,18-octaen-13-yl]oxy]-1-hydroxy-, 1-oxide, sodium salt (1:2) (CA INDEX NAME)

OTHER CA INDEX NAMES:

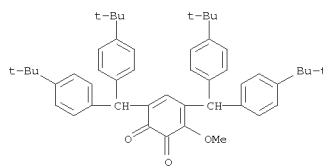
CN Phosphinecarboxylic acid, [[11,15-bis[4-(dimethylamino)phenyl]-3,4-dioxo-2,5-bis[(trifluoromethyl)sulfonyl]-2,5-diazatricyclo[14.3.1.16,10]heneicosa-1(20),6,8,10(21),11,14,16,18-octaen-13-yl]oxy]hydroxy-, disodium salt, 1-oxide (9CI)
MF C38 H33 F6 N4 O11 P S2 . 2 Na
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
CRN (849903-84-0)



● 2 Na

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

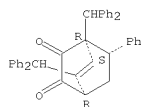
L5 ANSWER 6 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 474622-25-8 REGISTRY
ED Entered STN: 27 Nov 2002
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis[4-(1,1-dimethylethyl)phenyl]methyl]-3-methoxy- (CA INDEX NAME)
MF C49 H58 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 9 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 289897-62-7 REGISTRY
ED Entered STN: 21 Sep 2000
CN Bicyclo[2.2.2]oct-5-ene-2,3-dione, 1,5-bis(diphenylmethyl)-7-phenyl-, (1R,4R,7S)-rel- (CA INDEX NAME)
FS STEREOSEARCH
MF C40 H32 O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT

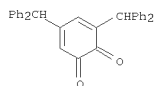
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 10 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 247155-99-3 REGISTRY
ED Entered STN: 15 Nov 1999
CN 3,5-Cyclohexadiene-1,2-dione, 3,5-bis(diphenylmethyl)- (CA INDEX NAME)
MF C32 H24 O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

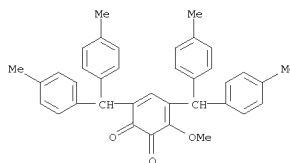
3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 11 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 212055-89-5 REGISTRY
ED Entered STN: 01 Oct 1998
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)
OTHER NAMES:
CN 4,6-Bis(diphenylmethyl)-3-methoxy-3,5-cyclohexadiene-1,2-dione
MF C33 H26 O3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 7 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 474622-24-7 REGISTRY
ED Entered STN: 27 Nov 2002
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis(4-methylphenyl)methyl]-3-methoxy- (CA INDEX NAME)
MF C37 H34 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT

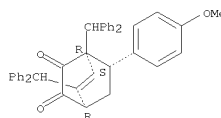


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

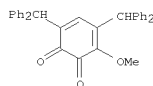
L5 ANSWER 8 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 289897-64-9 REGISTRY
ED Entered STN: 21 Sep 2000
CN Bicyclo[2.2.2]oct-5-ene-2,3-dione, 1,5-bis(diphenylmethyl)-7-(4-methoxyphenyl)-, (1R,4R,7S)-rel- (CA INDEX NAME)
FS STEREOSEARCH
MF C41 H34 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

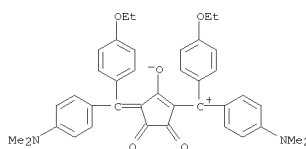
SR CA
LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

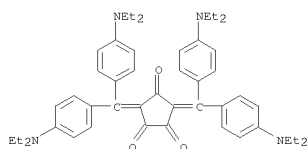
11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 12 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 138171-13-8 REGISTRY
ED Entered STN: 03 Jan 1992
CN Methylum, [4-(dimethylamino)phenyl][3-[[4-(dimethylamino)phenyl](4-ethoxyphenyl)methylene]-2-hydroxy-4,5-dioxo-1-cyclopenten-1-yl](4-ethoxyphenyl)-, inner salt (9CI) (CA INDEX NAME)
MF C39 H38 N2 O5
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 13 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 126553-63-7 REGISTRY
ED Entered STN: 13 Apr 1990
CN 1,2,4-Cyclopentanetrione, 3,5-bis[bis[4-(diethylamino)phenyl]methylene]- (CA INDEX NAME)
MF C47 H56 N4 O3
SR CA
LC STN Files: CA, CAPLUS



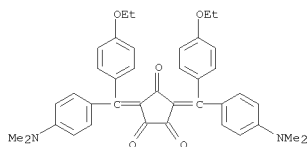
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 14 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 120381-50-2 REGISTRY
ED Entered STN: 28 Apr 1989
CN 1,2,4-Cyclopentanetrione, 3,5-bis[[4-(dimethylamino)phenyl]methoxyphenyl]methylene-, perchlorate (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,2,4-Cyclopentanetrione, 3,5-bis[[4-(dimethylamino)phenyl]methoxyphenyl]methylene-, monoperchlorate (9CI)
MF C39 H38 N2 O5 . Cl H O4
SR CA
LC STN Files: CA, CAPLUS

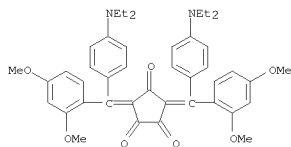
CM 1

CRN 120381-49-9
CMF C39 H38 N2 O5



CM 2

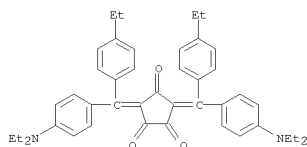
CRN 7601-90-3
CMF C1 H O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 17 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 118880-14-1 REGISTRY
ED Entered STN: 10 Feb 1989
CN 1,2,4-Cyclopentanetrione, 3,5-bis[[4-(diethylamino)phenyl]methoxyphenyl]methylene-, perchlorate (1:1) (CA INDEX NAME)
MF C43 H46 N2 O3
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

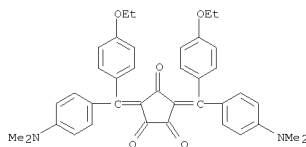
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 18 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 103566-78-5 REGISTRY
ED Entered STN: 02 Aug 1986
CN Nonanediameide, N,N'-dicyclohexyl-2,4,6,8-tetraoxo-3,3,7,7-tetraphenyl- (6CI) (CA INDEX NAME)
MF C45 H46 N2 O6
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

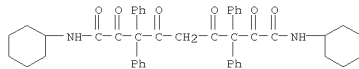
L5 ANSWER 15 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 120381-49-9 REGISTRY
ED Entered STN: 28 Apr 1989
CN 1,2,4-Cyclopentanetrione, 3,5-bis[[4-(dimethylamino)phenyl]methoxyphenyl]methylene-, perchlorate (1:1) (CA INDEX NAME)
DR 120069-65-0
MF C39 H38 N2 O5
CI COM
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 16 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN
RN 118880-15-2 REGISTRY
ED Entered STN: 10 Feb 1989
CN 1,2,4-Cyclopentanetrione, 3,5-bis[[4-(diethylamino)phenyl]methoxyphenyl]methylene-, perchlorate (1:1) (CA INDEX NAME)
MF C43 H46 N2 O7
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST
SINCE FILE
ENTRY
TOTAL
SESSION
231.79
232.01

FILE 'CAPLUS' ENTERED AT 12:55:37 ON 04 JUN 2010
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FILE COVERS 1907 - 4 Jun 2010 VOL 152 ISS 24
FILE LAST UPDATED: 3 Jun 2010 (20100603/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2010

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

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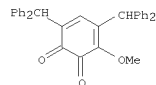
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L2 0 S L1 SAM
L3 STRUCTURE UPLOADED
L4 0 S L3 SAM
L5 18 S L3 FULL

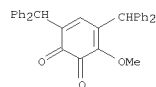
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L6 22 L5
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L6 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2010 ACS ON STN
ACCESSION NUMBER: 2009:1254984 CAPLUS
DOCUMENT NUMBER: 151:448286
TITLE: 1,3-Dipolar cycloaddition reactions of carbonyl ylides with 1,2-diones: synthesis of novel spiro oxabicycles. [Erratum to document cited in CA137:352928]
AUTHOR(S): Nair, Vijay; Sheela, K. C.; Sethumadhavan, D.; Dhanya, R.; Rath, Nigam P.
CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India
SOURCE: Tetrahedron (2009), 65(45), 9505
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB On page 4173, in Scheme 5, the structures labeled 10a-c and 11a-c, were incorrectly given, and should be reversed.
IT 212055-89-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(1,3-dipolar cycloaddn. reactions of carbonyl ylides with 1,2-diones (Erratum))
RN 212055-89-5 CAPLUS
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



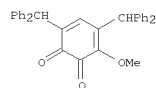
L6 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2010 ACS ON STN
ACCESSION NUMBER: 2008:325041 CAPLUS
DOCUMENT NUMBER: 148:517512
TITLE: Construction of heterocycles via 1,4-dipolar cycloaddition of quinoline-DMAD zwitterion with various dipolarophiles
AUTHOR(S): Nair, Vijay; Devipriya, S.; Suresh, Eringathodi
CORPORATE SOURCE: Organic Chemistry Section, Chemical Sciences Division, NIIST, CSIR, Trivandrum, 695 019, India
SOURCE: Tetrahedron (2008), 64(16), 3567-3577
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 148:517512
GI

(stereoselective preparation of pyridoquinolines and oxazinoquinolines via 1,4-dipolar cycloaddn. of quinoline-dimethyl acetylenedicarboxylate zwitterion with dipolarophiles)
RN 212055-89-5 CAPLUS
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



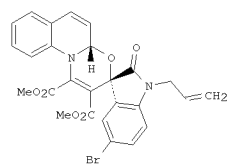
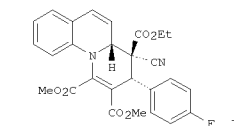
OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2010 ACS ON STN
ACCESSION NUMBER: 2006:943699 CAPLUS
DOCUMENT NUMBER: 147:95110
TITLE: Product class 2: benzo-1,2-quinones
AUTHOR(S): Nair, V.; Radhakrishnan, K. V.
CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695019, India
SOURCE: Science of Synthesis (2006), 28, 181-215
CODEN: SSCYJ9
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review of methods to prepare benzo-1,2-quinones and their applications to organic synthesis.
IT 212055-89-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(review preparation of benzoquinones with applications to organic synthesis)
RN 212055-89-5 CAPLUS
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)

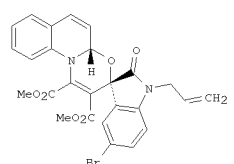
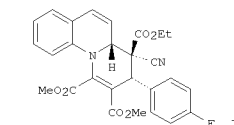


OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 161 THERE ARE 161 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2010 ACS ON STN
ACCESSION NUMBER: 2006:16414 CAPLUS
DOCUMENT NUMBER: 144:254072
TITLE: Sterically encumbered regioselective cycloaddition of a calixarene-derived bis(spirodienone) with

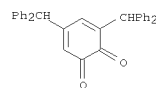


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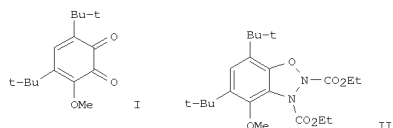
AB Quinoline forms a 1,4-zwitterion with di-Me acetylenedicarboxylate, which is trapped by various dipolarophiles to yield a variety of pyridoquinoline and oxazinoquinoline derivs., e.g. I and II.
IT 212055-89-5
RL: RCT (Reactant); RACT (Reactant or reagent)

AUTHOR(S): 1,2-benzoquinones
Varma, R. Luxmi; Ganga, V. B.; Suresh, E.; Suresh, C. H.
CORPORATE SOURCE: Organic Chemistry Section, Chemical Sciences Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India
SOURCE: Tetrahedron Letters (2006), 47(6), 917-921
CODEN: TETRA; ISSN: 0040-4039
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:254072
AB A calix[4]arene-derived bis(spiro dienone) acts as the 2π component in a cycloaddn. reaction with two mols. of 3,5-di-tert-butyl-1,2-benzoquinone in the [2+4] manner leading to macrocycles with a benzodioxin moiety. A theor. rationalization of the results suggested a sterically encumbered regioselective pathway, which gives sterically crowded products. The mol. structure of one of the products is presented and the resp. crystal data are deposited.
IT 247155-99-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(sterically encumbered regioselective cycloaddn. of calixarene-derived bis(spiro dienone) with ortho-benzoquinones)
RN 247155-99-3 CAPLUS
CN 3,5-Cyclohexadiene-1,2-dione, 3,5-bis(diphenylmethyl)- (CA INDEX NAME)

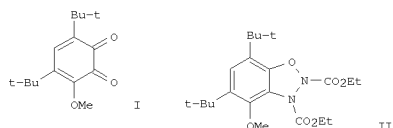


REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2010 ACS ON STN
ACCESSION NUMBER: 2005:1086047 CAPLUS
DOCUMENT NUMBER: 144:22866
TITLE: Reaction of Huisgen Zwitterion with 1,2-Benzoquinones and Isatins: Expeditionary Synthesis of Dihydro-1,2,3-benzoxadiazoles and Spirooxadiazolines
AUTHOR(S): Nair, Vijay; Biju, A. T.; Vinod, A. U.; Suresh, Eringathodi
CORPORATE SOURCE: Organic Chemistry Section, Chemical Sciences Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India
SOURCE: Organic Letters (2005), 7(23), 5139-5142
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:22866
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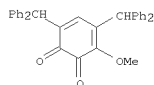
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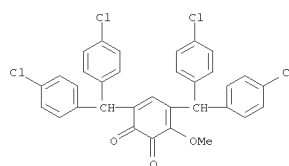
AB The zwitterionic intermediate generated from dialkyl azodicarboxylate and triphenylphosphine on reaction with 3-methoxy-1,2-benzoquinones afforded dihydro-1,2,3-benzoxadiazoles. E.g., reaction of triphenylphosphine, DEAD, and 3-methoxy-1,2-benzoquinone I gave 75% dihydro-1,2,3-benzoxadiazole II. N-Substituted isatins furnished spirooxadiazolines under similar conditions.

IT 212055-89-5 870475-16-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of dihydro-1,2,3-benzoxadiazoles and spirooxadiazolines by reaction of zwitterionic intermediates generated from dialkyl azodicarboxylates and triphenylphosphine with 3-methoxy-1,2-benzoquinones and N-substituted isatins)

RN 212055-89-5 CAPLUS
 CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



RN 870475-16-4 CAPLUS
 CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis(4-chlorophenyl)methyl]-3-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 24 THERE ARE 24 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)
 REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2010 ACS on SIN
 ACCESSION NUMBER: 2005:325744 CAPLUS
 DOCUMENT NUMBER: 142:397734
 TITLE: Preparation of prodrugs containing chemiluminescent and photochromic moieties for selective drug delivery
 INVENTOR(S): Mills, Randell L.; Wu, Guo-Zhang
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 199 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050080260	A1	20050414	US 2004-828558	20040421
PRIORITY APPL. INFO.:			US 2003-464354P	20030422

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

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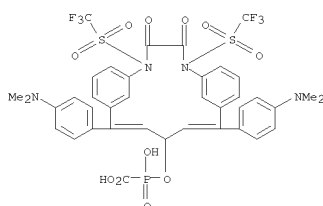
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to a method of synthesis of a chemical compound (I) having the formula A-B-C that may serve for applications such as drug delivery, where A is a chemiluminescent moiety, B is a photochromic moiety, and C is a biol. active moiety where A-B-C may serve as a prodrug. Novel synthetic methods of the present invention to form the prodrug comprised the steps of (1) forming a benzophenone, (2) forming a diaryl ethylene, (3) attaching a phthalimide moiety to at least one of the aryl groups of the ethylene to form a phthalimide-ethylene conjugate, (4) condensing two ethylene-phthalimide conjugates to form a

phthalimide-pentadiene conjugate, (5) converting the phthalimide to the phthalhydrazide by reaction with hydrazine to form a carrier compound according to the present invention, and (6) reacting the carrier compound with an nucleophilic moiety of the drug to form the corresponding prodrug. Alternatively the carrier can be prepared by using the halo-substituted diaryl ethylene to make the corresponding cationic leuco dye-like compound with known methods. The cationic compound then is protected by reacting with a nucleophile and coupled with the aminophthalimide by palladium-catalyzed amination to form the protected phthalimide-pentadiene conjugate. The latter is refluxed with hydrazine to convert its phthalimide to the phthalhydrazide and acidified to give the carrier. An addnl. aspect of the present invention relates to the use of these compds. as antiviral agents for the treatment of viral infections such as HIV and as anticancer agents for the treatment of cancers such as bowel, lung, and breast cancer.

IT 849736-74-9P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of prodrugs containing chemiluminescent and photochromic moieties for selective drug delivery)

RN 849736-74-9 CAPLUS
 CN Phosphinecarboxylic acid, 1-[[[1,15-bis[4-(dimethylamino)phenyl]-3,4-dioxo-2,5-bis[(trifluoromethyl)sulfonyl]-2,5-diazatricyclo[14.3.1.16,10]heneicos-1(20),6,8,10(21),11,14,16,18-octaen-13-yl]oxy]-1-hydroxy-, 1-oxide, sodium salt (1:2) (CA INDEX NAME)



● 2 Na

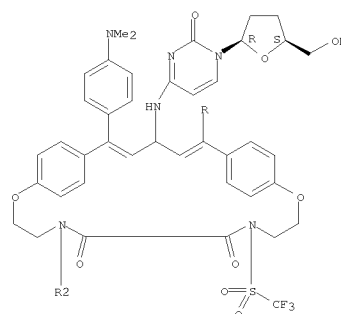
IT 849736-77-2
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (preparation of prodrugs containing chemiluminescent and photochromic moieties for selective drug delivery)

RN 849736-77-2 CAPLUS
 CN 11,20-Dioxo-14,17-diazatricyclo[19.2.2.2.27,10]heptacos-2,5,7,9,21,23,24,26-octaene-15,16-dione, 4-[[[1,2-dihydro-2-oxo-1-[(2R,5S)-tetrahydro-5-(hydroxymethyl)-2-furanyl]-4-pyrimidinyl]amino]-2,6-bis[4-(dimethylamino)phenyl]-14,17-bis[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)

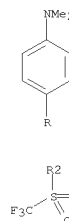
Absolute stereochemistry.

Double bond geometry unknown.

PAGE 1-A



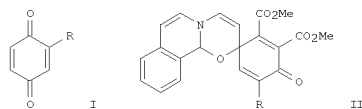
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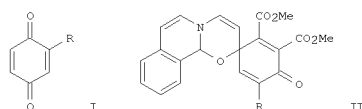
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L6 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2010 ACS on SIN
 ACCESSION NUMBER: 2005:213763 CAPLUS
 DOCUMENT NUMBER: 143:306253
 TITLE: 1,4-Dipolar cycloaddition in organic synthesis: a facile route to isoquinoline fused heterocycles
 AUTHOR(S): Nair, Vijay; Sreekanth, Anakkalil Ramachandran; Abhilash, Narayana Pillai; Biju, Akkattu Thankappan Nair; Varma, Luxmi; Vijji, Sreemathi; Mathew, Saumini
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research

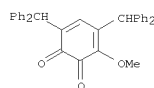
SOURCE: Laboratory (CSIR), Trivandrum, 695019, India
 ARKIVOC (Gainesville, FL, United States) (2005), (11),
 178-188
 CODEN: AGFUAR
 URL: http://www.arkat-
 usa.org/ark/journal/2005/I11_Swaminathan/1279/SS-
 1279L.pdf
 PUBLISHER: Arkat USA Inc.
 DOCUMENT TYPE: Journal; (online computer file)
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 143:306253
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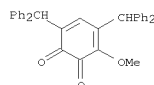


AB The three-component condensation reactions involving isoquinoline, di-Me acetylenedicarboxylate and carbonyl dipolarophiles such as o- and p-benzoquinones, e.g. I (R = H, Me, Ph), and N-substituted isatins constitute a one-pot synthesis of a variety of spirocyclic oxazinoisoquinolines, e.g. II, via 1,4-dipolar cycloaddn. pathway.
 IT 212055-89-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of spiro[cyclohexadienone-oxazinoisoquinoline]s and benzo-fused analogs by three-component condensation of isoquinoline, acetylenedicarboxylate and quinones via dipolar cycloaddn. pathway)
 RN 212055-89-5 CAPLUS
 CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
 REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

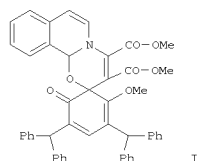
L6 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2003:929135 CAPLUS
 DOCUMENT NUMBER: 140:145940
 TITLE: Multicomponent reactions involving zwitterionic intermediates for the construction of heterocyclic systems: one pot synthesis of aminofurans and iminolactones
 AUTHOR(S): Nair, Vijay; Vinod, A. Unni; Abhilash, N.; Menon, Rajeev S.; Santhi, V.; Varma, R. Luxmi; Vijji, S.; Mathew, Saumini; Srinivas, R.
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India
 SOURCE: Tetrahedron (2003), 59(51), 10279-10286
 CODEN: TETRAB; ISSN: 0040-4020
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 140:145940
 AB The reaction of 1:1 zwitterionic intermediate generated in situ from di-Me acetylenedicarboxylate (DMAD) and cyclohexyl isocyanide with aldehydes and quinones is described. The reaction of stoichiometric amts. of DMAD, isocyanide and aldehydes afforded 2-aminofurans in good yields, while the reaction with quinones gave iminolactones.
 IT 212055-89-5, 4,6-Bis(diphenylmethyl)-3-methoxy-3,5-cyclohexadiene-1,2-dione
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of aminofurans and iminolactones via multicomponent reaction of aldehydes or ketones, di-Me acetylene dicarboxylate and cyclohexylisocyanide)
 RN 212055-89-5 CAPLUS
 CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



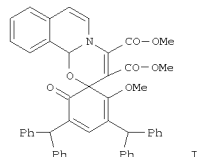
OS.CITING REF COUNT: 36 THERE ARE 36 CAPLUS RECORDS THAT CITE THIS RECORD (36 CITINGS)
 REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:91005 CAPLUS
 DOCUMENT NUMBER: 138:401673
 TITLE: The reaction of isoquinoline and dimethyl acetylenedicarboxylate with 1,2- and 1,4-benzoquinones: a novel synthesis of spiro[1,3]oxazino[2,3-a]isoquinolines
 AUTHOR(S): Nair, Vijay; Sreekanth, A. R.; Biju, A. T.; Rath, Nigam P.
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India
 SOURCE: Tetrahedron Letters (2003), 44(4), 729-732
 CODEN: TELEAY; ISSN: 0040-4039
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 138:401673
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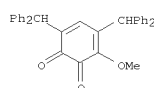


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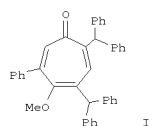
AB The 1,4-dipolar intermediate generated by the addition of isoquinoline to di-Me acetylenedicarboxylate is trapped by 1,2- and 1,4-benzoquinones by cyclocondensation, to afford spiro[1,3]oxazino[2,3-a]isoquinoline deriva., e.g. I, in high yields. Crystal structure of major regioisomer of I is reported.
 IT 212055-89-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis of spirooxazinoisoquinolines by cyclocondensation of isoquinoline and di-Me acetylenedicarboxylate with benzoquinones)
 RN 212055-89-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)

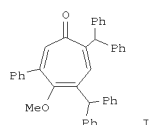


OS.CITING REF COUNT: 31 THERE ARE 31 CAPLUS RECORDS THAT CITE THIS RECORD (32 CITINGS)
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2002:699494 CAPLUS
 DOCUMENT NUMBER: 137:353180
 TITLE: SnCl4-Catalyzed Reaction of o-Benzoquinones and Aryl Acetylenes: An Unprecedented One-Pot Synthesis of Tropone Derivatives
 AUTHOR(S): Nair, Vijay; Sethumadhavan, D.; Nair, Smitha M.; Rath, Nigam P.; Eigendorf, Guenter K.
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695019, India
 SOURCE: Journal of Organic Chemistry (2002), 67(21), 7533-7536
 CODEN: JOCEAH; ISSN: 0022-3263
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:353180
 GI



GI

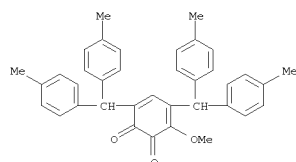


AB Highly substituted tropone derivs., e.g. I, were obtained as a result of SnCl₄-catalyzed cycloaddn. of 3-methoxy-substituted o-benzoquinones with aryl acetylenes and subsequent rearrangement of the adducts with concomitant decarbonylation.

IT 474622-24-7 474622-25-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of tropone derivs. via SnCl₄-catalyzed cycloaddn. of 3-methoxy-substituted o-benzoquinones with aryl acetylenes and subsequent rearrangement of the adducts with concomitant decarbonylation)

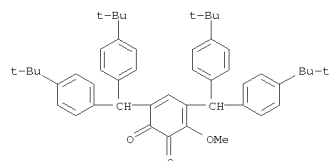
RN 474622-24-7 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis(4-methylphenyl)methyl]-3-methoxy- (CA INDEX NAME)



RN 474622-25-8 CAPLUS

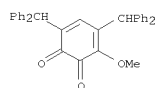
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis(4-(1,1-dimethylethyl)phenyl)methyl]-3-methoxy- (CA INDEX NAME)



IT 212055-89-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of tropone derivs. via SnCl₄-catalyzed cycloaddn. of 3-methoxy-substituted o-benzoquinones with aryl acetylenes and subsequent rearrangement of the adducts with concomitant decarbonylation)

RN 212055-89-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:379111 CAPLUS

DOCUMENT NUMBER: 137:352928

TITLE: 1,3-Dipolar cycloaddition reactions of carbonyl ylides with 1,2-diones: synthesis of novel spiro oxabicycles

AUTHOR(S): Nair, Vijay; Sheela, K. C.; Sethumadhavan, D.; Dhanya, R.; Rath, Nigam P.

CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India

SOURCE: Tetrahedron (2002), 58(21), 4171-4177

CODEN: TETRAB; ISSN: 0040-4020

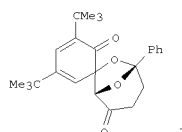
PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

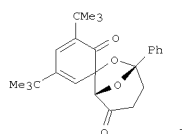
LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:352928

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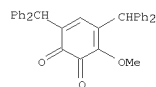
AB 1,3-Dipolar cycloaddn. reaction of carbonyl ylides with various o-quinones afforded highly oxygenated spiro oxabicycles, e.g. I.

IT 212055-89-5

RL: RCT (Reactant); RACT (Reactant or reagent)
 (1,3-dipolar cycloaddn. reactions of carbonyl ylides with 1,2-diones)

RN 212055-89-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:787524 CAPLUS

DOCUMENT NUMBER: 134:86140

TITLE: Triphenylphosphane-mediated addition of dimethyl acetylenedicarboxylate to 1,2- and 1,4-benzoquinones: synthesis of novel γ-spirolactones

AUTHOR(S): Nair, Vijay; Nair, J. Somarajan; Vinod, A. U.

CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India

SOURCE: Synthesis (2000), (12), 1713-1718

CODEN: SYNTBF; ISSN: 0039-7881

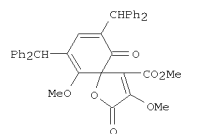
PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

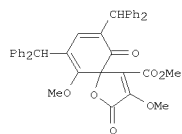
LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:86140

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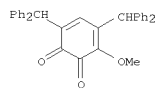


AB The zwitterionic intermediate generated by the addition of triphenylphosphane to di-Me acetylenedicarboxylate undergoes facile addition to ortho- and para-quinones to afford highly functionalized novel unsatd. γ-spirolactones, e.g., I, in moderate to high yields.

IT 212055-89-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (spirolactones via triphenylphosphane-mediated cycloaddn. of di-Me acetylenedicarboxylate to quinones)

RN 212055-89-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 25 THERE ARE 25 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS)

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:429535 CAPLUS

DOCUMENT NUMBER: 133:207602

TITLE: [4+2] Cycloaddition reactions of o-benzoquinones with styrenes: a facile synthesis of bicyclo[2.2.2]octenediones

AUTHOR(S): Nair, Vijay; Maliakal, Davis; Treesa, F. M.; Rath, Nigam P.; Eigendorf, Guenter K.

CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India

SOURCE: Synthesis (2000), (6), 850-856

CODEN: SYNTBF; ISSN: 0039-7881

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

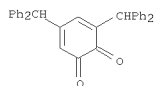
LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:207602

AB O-Benzoquinones undergo facile Diels-Alder reaction with styrenes, resulting in a high yield synthesis of bicyclo[2.2.2]octenediones. Rate acceleration of this reaction can be achieved by employing lithium triflate in acetonitrile.

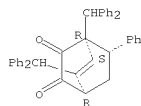
IT 247155-99-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (Diels-Alder reaction of o-benzoquinones with styrenes)

RN 247155-99-3 CAPLUS
CN 3,5-Cyclohexadiene-1,2-dione, 3,5-bis(diphenylmethyl)- (CA INDEX NAME)



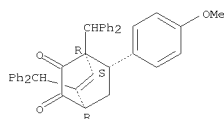
IT 289897-62-7P 289897-64-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(Diels-Alder reaction of o-benzoquinones with styrenes)
RN 289897-62-7 CAPLUS
CN Bicyclo[2.2.2]oct-5-ene-2,3-dione, 1,5-bis(diphenylmethyl)-7-phenyl-,
(1R,4R,7S)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 289897-64-9 CAPLUS
CN Bicyclo[2.2.2]oct-5-ene-2,3-dione,
1,5-bis(diphenylmethyl)-7-(4-methoxyphenyl)-, (1R,4R,7S)-rel- (CA INDEX
NAME)

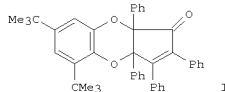
Relative stereochemistry.



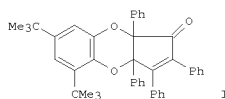
OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD
(7 CITINGS)
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1999:569956 CAPLUS
DOCUMENT NUMBER: 131:310602
TITLE: Hetero Diels-Alder reaction of o-benzoquinones with
tetracyclones: an efficient synthesis of benzodioxinone
derivatives
AUTHOR(S): Nair, Vijay; Mathew, Bini; Radhakrishnan, K. V.; Rath,
Nigam P.

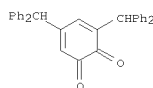
CORPORATE SOURCE: Organic Chemistry Division, Regional Research
Laboratory (CSIR), Trivandrum, 695 019, India
SOURCE: Tetrahedron (1999), 55(36), 11017-11026
CODEN: TETRA; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 131:310602
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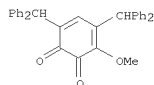
AB O-benzoquinones undergo facile hetero Diels-Alder reaction with
tetracyclone leading to cyclopenta[b][1,4]benzodioxinones, e.g., I.
IT 247155-99-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(hetero Diels-Alder reaction of o-quinones with tetracyclone)
RN 247155-99-3 CAPLUS
CN 3,5-Cyclohexadiene-1,2-dione, 3,5-bis(diphenylmethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS
RECORD (13 CITINGS)
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1998:482803 CAPLUS
DOCUMENT NUMBER: 129:202877
ORIGINAL REFERENCE NO.: 129:41215a,41218a
TITLE: Novel 1,3-dipolar cycloaddition reaction of carbonyl
ylide with o-quinones

AUTHOR(S): Nair, Vijay; Sheela, K. C.; Radhakrishnan, K. V.;
Rath, Nigam P.
CORPORATE SOURCE: Organic Chemistry Division, Regional Research
Laboratory (CSIR), Trivandrum, 695 019, India
SOURCE: Tetrahedron Letters (1998), 39(31), 5627-5630
CODEN: TETRA; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:202877
AB 1,3-Dipolar cycloaddn. reaction of carbonyl ylide with o-quinones afforded
novel highly oxygenated spirocyclic compds.
IT 212055-89-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(1,3-dipolar cycloaddn. reaction of carbonyl ylide with o-quinones)
RN 212055-89-5 CAPLUS
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA
INDEX NAME)

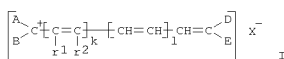


OS.CITING REF COUNT: 32 THERE ARE 32 CAPLUS RECORDS THAT CITE THIS
RECORD (32 CITINGS)
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

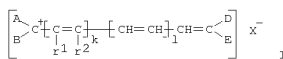
L6 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1992:72388 CAPLUS
DOCUMENT NUMBER: 116:72388
ORIGINAL REFERENCE NO.: 116:12180h,12181a
TITLE: Optical recording medium
INVENTOR(S): Santo, Takeshi; Tamura, Miki; Sugata, Hiroyuki
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03034137	A	19910214	JP 1989-166940	19890630
JP 2526125	B2	19960821		

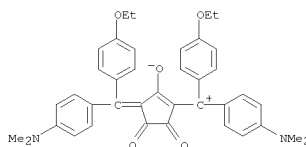
PRIORITY APPLN. INFO.: JP 1989-166940 19890630
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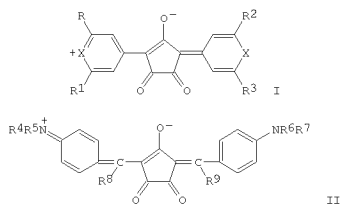
AB In the title optical recording medium obtained by coating a fine
groove-bearing substrate based on a photocurable resin with an organic
dye-containing recording layer, the photocurable resin contains an epoxy
monomer and a compound releasing a Lewis acid upon light exposure. The
Lewis acid precursor is an anion salt having an anion selected from BF6-
PF6-, AsF6-, SbF6-, SbCl6-, SnCl62-, FeCl4-, and BiCl52-. The organic dyes
are represented by I [A, B, D, E = H, alkyl, alkenyl, aralkyl, aryl,
styryl, heterocyclyl; r1,r2 = H, alkyl, cycloalkyl, alkenyl, aralkyl,
aryl; k = 0, 1; l = 0, 1; 2; X- = anion] and other cationic dyes. The
stability of the organic dyes is improved and deformation of the support is
prevented.
IT 138171-13-8
RL: USES (Uses)
(cationic dye, optical recording disk using)
RN 138171-13-8 CAPLUS
CN Methylum, [4-(dimethylamino)phenyl][3-[[4-(dimethylamino)phenyl](4-
ethoxyphenyl)methylene]-2-hydroxy-4,5-dioxo-1-cyclopenten-1-yl](4-
ethoxyphenyl)-, inner salt (9CI) (CA INDEX NAME)



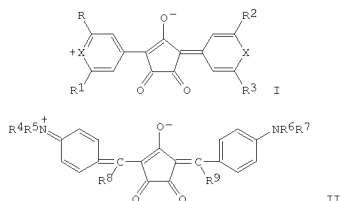
L6 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1990:189117 CAPLUS
DOCUMENT NUMBER: 112:189117
ORIGINAL REFERENCE NO.: 112:31793a,31796a
TITLE: Optical recording medium containing polymethine dyes
with improved stability
INVENTOR(S): Sato, Tutomu; Ichinose, Keiko
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01242288	A	19890927	JP 1988-71515	19880324

PRIORITY APPLN. INFO.: JP 1988-71515 19880324
OTHER SOURCE(S): MAREPAT 112:189117
GI



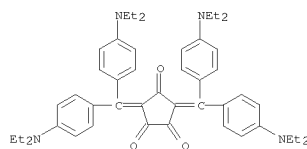
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AB Optical recording medium is composed of a substrate bearing thereon directly or via a undercoating a recording layer and when necessary a protective overcoating where the recording layer contains as main components 21 dyes selected from I and II [R, R1-3 = substituted or non-substituted C1-12 alkyl, dialkyl-amino, aryl, H; R4-7 = C1-12 alkyl; X = O, S, Se, NR10R11 where R10, R11 = C1-6 alkyl, aralkyl, H; R8, R9 = H, halo, alkoxy, dialkylamino, aryl]. The medium is superior in stabilities against light and heat which are brought by rerecording. Thus, a poly(Me methacrylate) disk (thickness of 1.2 mm, diameter of 130 mm) was coated with an acrylic photoresist which was patterned into a 900 Å deep leading groove with a 1.6 μm pitch to form a substrate for a recording medium. A dye I [R, R1-3 = CMe3, X = S] was dissolved in (CH2Cl)2 and spin-coated on the substrate to form a 600 Å thick recording layer. Recording and reading out of information were carried out by irradiating to the layer a light beam from a 790 nm semiconductor laser operated at a pulse frequency of 0.5 MHz and a scanning rate of 1.5 m/s to give a carrier to noise (C/N) ratio of 53 dB.

IT 126553-63-7

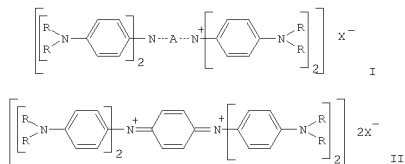
RL: USES (Uses)
(dye, in optical recording materials, with good heat resistance and light fastness)
RN 126553-63-7 CAPLUS
CN 1,2,4-Cyclopentanetrione, 3,5-bis[bis[4-(diethylamino)phenyl]methylene]-(CA INDEX NAME)



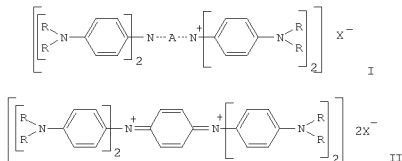
L6 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2010 ACS ON STN
ACCESSION NUMBER: 1989:544196 CAPLUS
DOCUMENT NUMBER: 111:144196
ORIGINAL REFERENCE NO.: 111:23925a,23928a
TITLE: Optical recording medium
INVENTOR(S): Oguchi, Yoshihiro; Sugata, Hiroyuki; Miura, Kyo;
Fukui, Tetsuro; Takasu, Yoshio
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 6322642	A	19880921	JP 1987-258807	19871014
US 4923390	A	19900508	US 1988-227862	19880802
PRIORITY APPLN. INFO.:			JP 1986-244609	A1 19861014
			JP 1986-253301	A1 19861023
			JP 1987-194597	A 19870804
			US 1987-106820	E2 19871013

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
GI

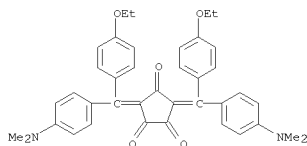


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AB An optical recording medium contains 21 polymethine dyes and a compound selected from an aminium compound (I) [R = H, alkyl; A = phenylene, biphenylene; Xe = anion], and a diimonium compound (II) [R = H, alkyl; X- = anion]. The material shows superior writing and reading capabilities and good shelf life.

IT 120381-49-9
RL: USES (Uses)
(polymethine dye, optical recording material using)
RN 120381-49-9 CAPLUS
CN 1,2,4-Cyclopentanetrione, 3,5-bis[4-(dimethylamino)phenyl] (4-ethoxyphenyl)methylene]-(CA INDEX NAME)

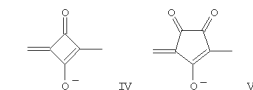
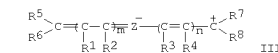
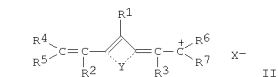
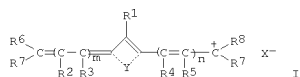


OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

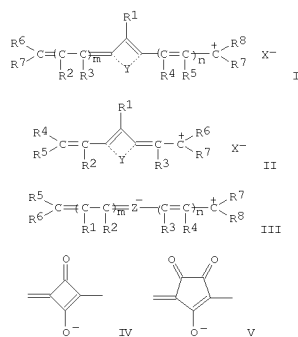
L6 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2010 ACS ON STN
ACCESSION NUMBER: 1989:415397 CAPLUS
DOCUMENT NUMBER: 111:15397
ORIGINAL REFERENCE NO.: 111:2629a,2632a
TITLE: Optical recording medium for optical disks and cords
INVENTOR(S): Fukui, Tetsuro; Miura, Kyo; Oguchi, Yoshihiro; Takasu, Yoshio
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63165181	A	19880708	JP 1986-309073	19861227
JP 2640457	B2	19970813		
PRIORITY APPLN. INFO.:			JP 1986-309073	19861227
GI				

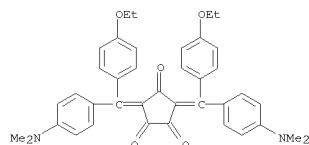


GI



AB An optical recording medium for optical disks and conds contains ≥ 1 compds. selected from I [R1-R5 = H, halo, alkyl; R6-R9 = H, alkyl, alkenyl, aryl; Y = atom required to complete 5- or 6-membered ring; X- = anion; m, n = 0, 1, 2], II [R1-R3 = H, halo, alkyl; R4-R7 = H, alkyl, alkenyl, aryl; Y = group required to complete 5- or 6-membered ring], and III [R5-R8 = H, alkyl, alkenyl, aryl; R1-R4 = H, halo, alkyl; m, n = 0, 1, 2; 2 = IV, V] and a metal chelate. The recording material has improved reflectivity and storage stability.

IT 120381-49-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (optical recording material containing)
 RN 120381-49-9 CAPLUS
 CN 1,2,4-Cyclopentanetrione, 3,5-bis[[4-(dimethylamino)phenyl](4-ethoxyphenyl)methylene]- (CA INDEX NAME)



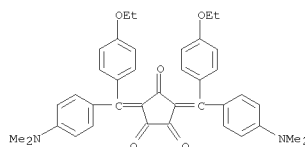
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1989:85651 CAPLUS

DOCUMENT NUMBER: 110:202998
 ORIGINAL REFERENCE NO.: 110:33533a,33536a
 TITLE: Laser recording medium containing two substrates pasted together by adhesive
 INVENTOR(S): Miyazaki, Takeshi; Fukui, Tetsuro
 PATENT ASSIGNEE(S): Canon K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63200339	A	19880818	JP 1987-31068	19870212
JP 05035491	B	19930526		

PRIORITY APPLN. INFO.: JP 1987-31068 19870212
 AB In the title medium made by pasting together with an adhesive a pair of substrates, leaving an empty space between them, of which ≥ 1 substrate has on the inside a recording layer containing an organic dye, the adhesive contains an epoxy monomer and a compound which generates a Lewis acid upon irradiation with light, such as diphenyliodonium hexafluorophosphate.
 IT 120381-50-2
 RL: USES (Uses)
 (Laser recording medium with recording layer of)
 RN 120381-50-2 CAPLUS
 CN 1,2,4-Cyclopentanetrione, 3,5-bis[[4-(dimethylamino)phenyl](4-ethoxyphenyl)methylene]-, perchlorate (1:1) (CA INDEX NAME)
 CM 1
 CRN 120381-49-9
 CME C39 H38 N2 O5



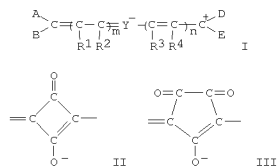
CM 2
 CRN 7601-90-3
 CME C1 H O4



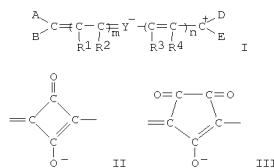
L6 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1989:85651 CAPLUS
 DOCUMENT NUMBER: 110:85651
 ORIGINAL REFERENCE NO.: 110:14003a,14006a
 TITLE: Optical recording medium having polymethine compound-containing organic thin film
 INVENTOR(S): Oguchi, Yoshihiro; Santo, Takeshi
 PATENT ASSIGNEE(S): Canon K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63207692	A	19880829	JP 1987-40417	19870225
JP 2530443	B2	19960904		

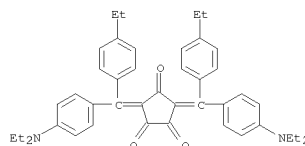
PRIORITY APPLN. INFO.: JP 1987-40417 19870225
 OTHER SOURCE(S): MARPAT 110:85651
 GI



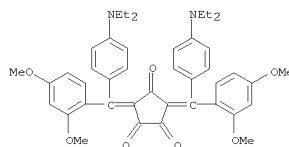
GI



AB The title recording medium has an organic thin film containing I [Y = II, III; A, B, D, E = H, (substituted) alkyl, aralkyl, aryl, styryl, heterocyclyl, alkenyl, cycloalkyl; R1-R4 = H, halogen, alkyl; m, n = 0-2]. This recording medium is useful as an optical disk or optical card. This recording medium shows high sensitivity to semiconductor lasers, high carrier wave-to-noise ratio, improved thermal and light stabilities, storage stability, and durability, and superior pit formation.
 IT 118880-14-1 118880-15-2
 RL: USES (Uses)
 (organic thin film. containing, as recording layer, optical recording medium using)
 RN 118880-14-1 CAPLUS
 CN 1,2,4-Cyclopentanetrione, 3,5-bis[[4-(diethylamino)phenyl](4-ethylphenyl)methylene]- (CA INDEX NAME)

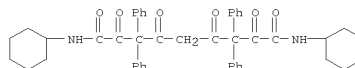


RN 118880-15-2 CAPLUS
 CN 1,2,4-Cyclopentanetrione, 3,5-bis[[4-(diethylamino)phenyl](2,4-dimethoxyphenyl)methylene]- (CA INDEX NAME)



L6 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2010 ACS ON SHN
ACCESSION NUMBER: 1961:137455 CAPLUS
DOCUMENT NUMBER: 55:137455
ORIGINAL REFERENCE NO.: 55:259281,25929a-g
TITLE: Isonitriles. VI. Reaction of isonitriles with ketenes
AUTHOR(S): Ugl, Ivar; Rosendahl, Karl
CORPORATE SOURCE: Utl, Munich, Germany
SOURCE: Chemische Berichte (1961), 94, 2233-8
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA issue.
GI For diagram(s), see printed CA issue.
AB Isonitriles with 2 moles of a ketene yielded deriva. of
1,2,4-cyclopentanetrione and in the presence of carboxylic acids
α,γ-dioxo carboxamides. The appropriate isonitrile (5
millimoles) in 10 cc. dry Et2O treated at -20° with 1.94 g. Ph2C:
CO and after 1 hr. evaporated in vacuo, and the residue digested with cold
iso-PrOH and recrystd. from C6H6 and iso-PrOH gave the corresponding
RR'C.CO.CRR'C(:NR'') .CO (I). In this manner were prepared the following I
(R and R' = Ph) (R''), yield and m.p. of crude and of pure product given):
Et, 72, 134-50°, 62, 165-6°, Bu, 93, 83-5°, 82,
108-9°; cyclohexyl (II), 83, 170-4°, 77, 180-1°;
PhCH2, 79, 146-8°, 76, 150-1°; 2,6-Me2C6H3, 88, 74,
173-4°. The appropriate isonitrile (25 millimoles) and 7.07 g.
Et3N in 100 cc. dry Et2O and 100 cc. ligroine (b. 60-80°) treated
at 0° with stirring during 0.5 hr. with 50 millimoles carboxylic
acid chloride in 50 cc. dry Et2O, filtered after 2 hrs., and evaporated in
vacuo at 0°, and the residue digested with 15 cc. cold MeOH and
recrystd. from iso-PrOH gave the corresponding I. In this manner were
prepared the following I (R = H) (R', R''), and yield and m.p. of crude and
of pure product given): Ph, cyclohexyl, 57, 127-30°, 53,
135-6°; Ph, 2,6-Me2C6H3, 33, 124-5°, 28, 126-7°;
p-ClC6H4, cyclohexyl, 41, 150-6°, 35, 164-5°; p-MeOC6H4,
cyclohexyl, 33, 134-5°, 22, 135-6°; II, 41, 151-70°,
38, 180-1°. The appropriate I (500 mg.) in 5 cc. tetrahydrofuran
treated at 20° with 0.25 cc. concentrated HCl and after 10 hrs. concentrated in
vacuo, and the residue recrystd. from C6H6-iso-PrOH gave the corresponding
RR'CHCOCRR'COCONHR'' (III). In this manner were prepared the following III
(R and R' = Ph) (R'') and % yield and m.p. of crude and of pure product
given): Et, 87, 137-9°, 83, 138.5-9.5°; Bu, 89,
143-5°, 83, 145-6°; cyclohexyl (IV), 89, 180-1°, 91,
184-5°; PhCH2, 95, 137-40°, 90, 140-1°; 2,6-Me2C6H3,
89, 175-7°, 83, 176.5-7.5°. In the same manner were prepared
the following III (R = H) (R', R''), and yield and m.p. of crude and of
pure product given): Ph, cyclohexyl, 99, 95-100°, 74,
128-9°; Ph, 2,6-Me2C6H3, 96, 145-52°, 70, 156.5-58°;
p-ClC6H4, cyclohexyl, 98, 150-70°, 54, 188-92°; p-MeOC6H4,
cyclohexyl, 98, 131-48°, 72, 153.5-55°. Cyclohexyl
isocyanide (V) (1.64 g.) and 18 millimoles of an appropriate carboxylic
acid in 50 cc. dry Et2O treated dropwise with stirring at 0° with
2.91 g. Ph2C:CO, kept 10 hrs. at 0°, and filtered, and the residue
recrystd. from C6H6-cyclohexane gave the corresponding RCOCPH2COCONHR' (R'
= cyclohexyl) (R, % yield, and m.p. of the pure product given): Me, 79,
141.5-2.5°; ClCH2, 69, 135.5-6.5°; Me3C, 67, 155-6°;
Ph2CH, 74, 184-5°; Ph, 78, 168.5-69°; o-HOC6H4, 74,
155-6°; Ac, 52, 125-6°. V (3.27 g.) and 1.56 g. CH2(CO2H)2
in 80 cc. dry Et2O treated with stirring and cooling with 6.41 g. Ph2C:CO
and kept 10 hrs. at 0° gave 9.37 g. (crude
(1,3,5,7-tetraoxo-2,2,6,6-tetraphenyl-1,7-heptanedicarboxylic acid

N,N'-dicyclohexyldiamide, m. 190° (decomposition) (C6H6-cyclohexane).
CO(CH2CO2H)2 with Ph2C:CO and V gave similarly 87%
1,3,5,7,9-tetraoxo-2,2,8,8-tetraphenyl-1,9-nonanedicarboxylic acid
N,N'-dicyclohexyldiamide. V (2.73 g.), 3.05 g. BzOH, 7.07 g. Et3N in 80
cc. dry Et2O and 80 cc. ligroine (b. 60-80°) treated with 5.75 cc.
Ph2CHCOCl in 50 cc. dry Et2O and filtered, and the residue digested with
50% MeOH and filtered gave 9.20 g. (crude)
α,γ-dioxo-β,β,γ-triphenylbutyric acid
cyclohexylamide, m. 168.5-69° (C6H6-cyclohexane). IV (1.03 g.)
refluxed 1 hr. with 7 mg. Na in 7.5 cc. absolute MeOH and concentrated to 3
cc. gave
538 mg. cyclohexylamide of Ph2CHCOCO2H, m. 107.5-8.5° (MeOH); the
mother liquor yielded 321 mg. Ph2CHCO2Et, b12 160-70°, m.
57-9° (MeOH).
IT 103566-78-5P, Nonanediamide,
N,N'-dicyclohexyl-2,4,6,8-tetraoxo-3,3,7,7-tetraphenyl-
RL: PREP (Preparation)
(preparation of)
RN 103566-78-5 CAPLUS
CN Nonanediamide, N,N'-dicyclohexyl-2,4,6,8-tetraoxo-3,3,7,7-tetraphenyl-
(6CI) (CA INDEX NAME)



OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS
RECORD (14 CITINGS)

=> logoff hold

(FILE 'HOME' ENTERED AT 12:51:41 ON 04 JUN 2010)
FILE 'REGISTRY' ENTERED AT 12:51:56 ON 04 JUN 2010
L1 STRUCTURE UPLOADED
D
L2 0 SEA FILE=REGISTRY SSS SAM L1
L3 STRUCTURE UPLOADED
D
L4 0 SEA FILE=REGISTRY SSS SAM L3
L5 18 SEA FILE=REGISTRY SSS FUL L3
D L5 1-18
FILE 'CAPLUS' ENTERED AT 12:55:37 ON 04 JUN 2010
L6 22 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L5
D L6 IBIB GI ABS HITSTR 1-22
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 128.32 360.33
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE -18.70 -18.70
SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:56:25 ON 04 JUN 2010